

Eduardo Egusquiza Estevez

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,965
citations

24
h-index

42
g-index

90
ext. papers

2,283
ext. citations

3
avg, IF

4.85
L-index

#	Paper	IF	Citations
89	Characterization of the Effects of Ingested Bodies on the RotorStator Interaction of Hydraulic Turbines. <i>Energies</i> , 2021 , 14, 6669	3.1	1
88	On the use of neural networks for dynamic stress prediction in Francis turbines by means of stationary sensors. <i>Renewable Energy</i> , 2021 , 170, 652-660	8.1	1
87	Selection and Optimization of Sensors for Monitoring of Francis Turbines. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012028	0.3	
86	Strain prediction in Francis runners by means of stationary sensors. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012084	0.3	
85	Increasing the operating range and energy production in Francis turbines by an early detection of the overload instability. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 181, 109580	4.6	2
84	Multi-objective optimization of a hydro-wind-photovoltaic power complementary plant with a vibration avoidance strategy. <i>Applied Energy</i> , 2021 , 301, 117459	10.7	6
83	Experimental and numerical investigation on the influence of a large crack on the modal behaviour of a Kaplan turbine blade. <i>Engineering Failure Analysis</i> , 2020 , 109, 104389	3.2	9
82	Transposition of the mechanical behavior from model to prototype of Francis turbines. <i>Renewable Energy</i> , 2020 , 152, 1011-1023	8.1	10
81	On the use of artificial neural networks for condition monitoring of pump-turbines with extended operation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 163, 107952	4.6	12
80	Dynamic response of Pelton runners: Numerical and experimental analysis in prototypes. <i>Renewable Energy</i> , 2020 , 157, 116-129	8.1	2
79	A Dataset to Evaluate IEEE 802.15.4g SUN for Dependable Low-Power Wireless Communications in Industrial Scenarios. <i>Data</i> , 2020 , 5, 64	2.3	1
78	Dynamic Model for Axial Motion of Horizontal Pelton Turbine and Validation in Actual Failure Case. <i>Shock and Vibration</i> , 2020 , 2020, 1-16	1.1	
77	Synchronous condenser operation in Francis turbines: Effects in the runner stress and machine vibration. <i>Renewable Energy</i> , 2020 , 146, 890-900	8.1	2
76	Detection of Hydraulic Phenomena in Francis Turbines with Different Sensors. <i>Sensors</i> , 2019 , 19,	3.8	9
75	Influence of the hydrodynamic damping on the dynamic response of Francis turbine runners. <i>Journal of Fluids and Structures</i> , 2019 , 90, 71-89	3.1	6
74	Experimental and Numerical Design and Evaluation of a Vibration Bioreactor using Piezoelectric Patches. <i>Sensors</i> , 2019 , 19,	3.8	5
73	Experimental investigation on the dynamic response of Pelton runners. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 022062	0.3	

72	Behavior of Francis turbines at part load. Field assessment in prototype: Effects on the hydraulic system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 052029	0.3	
71	Behavior of Francis turbines at part load. Field assessment in prototype: Effects on power swing. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 062012	0.3	3
70	Detection of erosive cavitation on hydraulic turbines through demodulation analysis. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 062048	0.3	2
69	Experimental Measurements of the Natural Frequencies and Mode Shapes of Rotating Disk-Blades-Disk Assemblies from the Stationary Frame. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3864	2.6	5
68	Failure investigation of a Kaplan turbine blade. <i>Engineering Failure Analysis</i> , 2019 , 97, 690-700	3.2	19
67	Advanced condition monitoring of Pelton turbines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 119, 46-55	4.6	24
66	Transmission of High Frequency Vibrations in Rotating Systems. Application to Cavitation Detection in Hydraulic Turbines. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 451	2.6	16
65	Feasibility of Detecting Natural Frequencies of Hydraulic Turbines While in Operation, Using Strain Gauges. <i>Sensors</i> , 2018 , 18,	3.8	19
64	Sensor-Based Optimized Control of the Full Load Instability in Large Hydraulic Turbines. <i>Sensors</i> , 2018 , 18,	3.8	12
63	Experimental Study of a Vibrating Disk Submerged in a Fluid-Filled Tank and Confined With a Nonrigid Cover. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017 , 139,	1.6	12
62	Feasibility to Detect Natural Frequencies of Hydraulic Turbines under Operation Using Strain Gauges. <i>Proceedings (mdpi)</i> , 2017 , 1, 821	0.3	2
61	Condition monitoring of a prototype turbine. Description of the system and main results. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012041	0.3	9
60	Overview of the experimental tests in prototype. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012037	0.3	5
59	Failure investigation of a Pelton turbine runner. <i>Engineering Failure Analysis</i> , 2017 , 81, 234-244	3.2	16
58	Detection and analysis of part load and full load instabilities in a real Francis turbine prototype. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012038	0.3	11
57	Numerical study on the influence of acoustic natural frequencies on the dynamic behaviour of submerged and confined disk-like structures. <i>Journal of Fluids and Structures</i> , 2017 , 73, 53-69	3.1	20
56	Dynamic response of the MICA runner. Experiment and simulation. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012036	0.3	3
55	Optimized Use of Sensors to Detect Critical Full Load Instability in Large Hydraulic Turbines. <i>Proceedings (mdpi)</i> , 2017 , 1, 822	0.3	2

54	Accurate Determination of the Frequency Response Function of Submerged and Confined Structures by Using PZT-Patches <i>Sensors</i> , 2017 , 17,	3.8	25
53	On the Use of PZT-Patches as Exciters in Modal Analysis: Application to Submerged Structures. <i>Proceedings (mdpi)</i> , 2017 , 1, 32	0.3	3
52	Power Swing Generated in Francis Turbines by Part Load and Overload Instabilities. <i>Energies</i> , 2017 , 10, 2124	3.1	44
51	Extension of Operating Range in Pump-Turbines. Influence of Head and Load. <i>Energies</i> , 2017 , 10, 2178	3.1	17
50	Analysis of the dynamic response of pump-turbine impellers. Influence of the rotor. <i>Mechanical Systems and Signal Processing</i> , 2016 , 68-69, 330-341	7.8	34
49	Influence of the boundary conditions on the natural frequencies of a Francis turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 072004	0.3	12
48	Natural frequencies of rotating disk-like structures submerged viewed from the stationary frame. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 082023	0.3	2
47	Dynamic response of a rotating disk submerged and confined. Influence of the axial gap. <i>Journal of Fluids and Structures</i> , 2016 , 62, 332-349	3.1	22
46	Experimental mode shape determination of a cantilevered hydrofoil under different flow conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016 , 230, 3408-3419	1.3	7
45	Testing of self-similarity and helical symmetry in vortex generator flow simulations. <i>Wind Energy</i> , 2016 , 19, 1043-1052	3.4	32
44	On the Capability of Structural-Acoustical Fluid-Structure Interaction Simulations to Predict Natural Frequencies of Rotating Disklike Structures Submerged in a Heavy Fluid. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016 , 138,	1.6	11
43	Condition monitoring of pump-turbines. New challenges. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 67, 151-163	4.6	36
42	Influence of the rotation on the natural frequencies of a submerged-confined disk in water. <i>Journal of Sound and Vibration</i> , 2015 , 337, 161-180	3.9	28
41	Thermal Performance of Ventilated Double Skin Façades with Venetian Blinds. <i>Energies</i> , 2015 , 8, 4882-4898	3.8	42
40	On the detection of natural frequencies and mode shapes of submerged rotating disk-like structures from the casing. <i>Mechanical Systems and Signal Processing</i> , 2015 , 60-61, 547-570	7.8	26
39	Analysis of damage caused by siloxanes in stationary reciprocating internal combustion engines operating with landfill gas. <i>Engineering Failure Analysis</i> , 2015 , 50, 29-38	3.2	21
38	Experimental study on the added mass and damping of a disk submerged in a partially fluid-filled tank with small radial confinement. <i>Journal of Fluids and Structures</i> , 2014 , 50, 1-17	3.1	39
37	Boundary layer effects on the vortex shedding in a Donaldson- type hydrofoil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 032045	0.3	1

36	Monitoring of Rotor-Stator Interaction in Pump-Turbine Using Vibrations Measured with On-Board Sensors Rotating with Shaft. <i>Shock and Vibration</i> , 2014 , 2014, 1-8	1.1	24
35	Feasibility of using PZT actuators to study the dynamic behavior of a rotating disk due to rotor-stator interaction. <i>Sensors</i> , 2014 , 14, 11919-42	3.8	29
34	Influence of the added mass effect and boundary conditions on the dynamic response of submerged and confined structures. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 032042	0.3	2
33	Experimental analysis of the dynamic behavior of a rotating disk submerged in water. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 032043	0.3	3
32	Numerical and experimental study of a nearby solid boundary and partial submergence effects on hydrofoil added mass. <i>Computers and Fluids</i> , 2014 , 91, 1-9	2.8	19
31	Experimental investigation of added mass effects on a hydrofoil under cavitation conditions. <i>Journal of Fluids and Structures</i> , 2013 , 39, 173-187	3.1	66
30	Dynamic behaviour of pump-turbine runner: From disk to prototype runner. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013 , 52, 022036	0.4	6
29	Numerical and experimental analysis of the dynamic response of large submerged trash-racks. <i>Computers and Fluids</i> , 2013 , 71, 54-64	2.8	8
28	Use of Coandănozzles for double glazed faades forced ventilation. <i>Energy and Buildings</i> , 2013 , 62, 605-614	1.4	8
27	Assessment of the Economic and Environmental Impact of Double Glazed Faade Ventilation Systems in Mediterranean Climates. <i>Energies</i> , 2013 , 6, 5069-5087	3.1	6
26	Failure investigation of a large pump-turbine runner. <i>Engineering Failure Analysis</i> , 2012 , 23, 27-34	3.2	103
25	Analysis of chatter marks damage on the Yankee dryer surface of a tissue machine. <i>Engineering Failure Analysis</i> , 2012 , 23, 44-54	3.2	2
24	Capability of structural-acoustical FSI numerical model to predict natural frequencies of submerged structures with nearby rigid surfaces. <i>Computers and Fluids</i> , 2012 , 64, 117-126	2.8	35
23	Detached eddy simulation of the rotor-stator interaction phenomenon in a moving cascade of airfoils. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 062039	0.3	1
22	Analysis of the dynamic response of pump-turbine runners-Part I: Experiment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 052015	0.3	8
21	CFD assessment of the performance of lateral ventilation in Double Glazed Faades in Mediterranean climates. <i>Energy and Buildings</i> , 2011 , 43, 2539-2547	7	17
20	Failures due to ingested bodies in hydraulic turbines. <i>Engineering Failure Analysis</i> , 2011 , 18, 464-473	3.2	18
19	Fluid Added Mass Effect in the Modal Response of a Pump-Turbine Impeller 2009 ,		8

18	A CFD approach to evaluate the influence of construction and operation parameters on the performance of Active Transparent Façades in Mediterranean climates. <i>Energy and Buildings</i> , 2009 , 41, 534-542	7	42
17	Dynamic Analysis of Francis Runners - Experiment and Numerical Simulation. <i>International Journal of Fluid Machinery and Systems</i> , 2009 , 2, 303-314	1.1	30
16	Performance and influence of numerical sub-models on the CFD simulation of free and forced convection in double-glazed ventilated façades. <i>Energy and Buildings</i> , 2008 , 40, 1781-1789	7	63
15	Numerical simulation of fluid added mass effect on a francis turbine runner. <i>Computers and Fluids</i> , 2007 , 36, 1106-1118	2.8	79
14	Performance of stress-transport models in the prediction of particle-to-fluid heat transfer in packed beds. <i>Chemical Engineering Science</i> , 2007 , 62, 6897-6907	4.4	25
13	Frequencies in the Vibration Induced by the Rotor Stator Interaction in a Centrifugal Pump Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 1428-1435	2.1	115
12	Dynamics and Intensity of Erosive Partial Cavitation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 886-893	2.1	13
11	Cavitation Influence on von Kármán Vortex Shedding and Induced Hydrofoil Vibrations. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 966-973	2.1	77
10	Detection of cavitation in hydraulic turbines. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 983-1007	7	227
9	Experimental investigation of added mass effects on a Francis turbine runner in still water. <i>Journal of Fluids and Structures</i> , 2006 , 22, 699-712	3.1	76
8	Computational Fluid Dynamics Modeling of Impinging Gas-Jet Systems: II. Application to an Industrial Cooling System Device. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005 , 127, 704-713	2.1	7
7	Influence of the turbulence model in CFD modeling of wall-to-fluid heat transfer in packed beds. <i>Chemical Engineering Science</i> , 2005 , 60, 1733-1742	4.4	98
6	CFD Flow and Heat Transfer in Nonregular Packings for Fixed Bed Equipment Design. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 7049-7056	3.9	58
5	Cavitation erosion tests on a 2D hydrofoil using surface-mounted obstacles. <i>Wear</i> , 2003 , 254, 441-449	3.5	23
4	Analysis of the fluid-dynamic and thermal behaviour of a tin bath in float glass manufacturing. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 348-359	4.1	18
3	Extension of the Lever & Weaver's unsteady analytical model to the fluidelastic instability of arrays of flexible cylinders. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1993 , 49, 177-186	3.7	
2	On the use of Vibrational Hill Charts for improved condition monitoring and diagnosis of hydraulic turbines. <i>Structural Health Monitoring</i> , 147592172110724	4.4	0
1	Improved damage detection in Pelton turbines using optimized condition indicators and data-driven techniques. <i>Structural Health Monitoring</i> , 147592172098183	4.4	3

